86-inch Interactive Flat Panel Specifications

Model: Y86AIO/TS–A04CM

Product Series: V2.8 Series

Version: V1.0

Document Number	Prepared by	Reviewed by	Approved by	Effective Date

Version	Description	Date	Fiction
V1.0	First Released	November 4, 2024	Chen Qingjie

Product description

- The appearance design of the Interactive Flat Panel adopts two-color matching, the front panel is embedded with double pen slots, and the front is embedded with various interfaces.

- The Interactive Flat Panel adopts UHD 4K screen. The display is clearer, and the screen refresh rate is 60~120Hz.

- The Interactive Flat Panel adopts 60-point infrared touch, which makes the appearance more concise, the performance more stable, and the writing faster and more accurate.

- The bottom of the Interactive Flat Panel is embedded with dual-channel high-power stereo to ensure the output tone quality is clear and loud.

- When the system is in standby state, it will automatically wake up when HDMI input signal.

- The system adopts Windows+Android dual system intelligent interoperability, one-click switching of signal sources, and automatic identification of input signal sources.

- The system has the function of automatically adjusting the brightness of the display screen to meet the needs of various scenarios.

- The system has the function of gesture recognition: writing with one finger, moving with two fingers, holding the screen with three fingers, and erasing with five fingers.

- Interactive Flat Panel is energy-saving and environmentally friendly: one-click energy-saving mode, automatic standby without operation, automatic standby when the blackboard is turned off.

Product features

1）Whiteboard writing :

- Writing software, supports 60-point writing and single-point writing, more color and background switching, supports whiteboard recording, multiple ways to save, gesture wipe, circle drag, copy or delete, insert pictures, add pages and other functions. Annotations are supported.

- The glass is made of fully tempered glass (AG anti-glare tempered glass) with a Mohs hardness of 7, which is safe and secure.

2）Smart Touch :

- Arc-shaped four-equilateral simple appearance,60-point touch, high sensitivity, smoother writing.

- Drag and sort all applications, long-press to uninstall, and one-click clearing of open applications from the recent taskbar, which is convenient and quick to manage applications.

3）Conference function :

- Built-in office software, welcome interface and other efficient meeting software.

- Built-in 2.4G/5.8G dual-band, dual network card, support simultaneous use of wireless Internet access and WIFI hotspot.

- Support wireless same screen, multi-split screen function on the same screen (support Android, Windows), support simultaneous screen projection of multiple devices and automatic identification and jump of external input signal sources, and screen switching is easy and convenient.

4）Machine function :

- QLED technique with 100% color gamut to make people's eyes more comfortable and get better visual effects.

- High-definition image processing engine: image motion compensation (HDR), color enhancement processing, point-to-point display technology.
- Smart sleep, touch screen wake-up, one-click energy saving, environmental

protection and energy saving, prolong service life.

- Support one-click eye protection and one-click anti-blue light function.

- Built-in reserved OPS interface, expandable dual system (Windows/Android dual system).

- Sidebar buttons, gesture calling methods and touch control switches can be freely switched, making it more convenient to use.

Specifications

Project		Content	Remark
Product Series	Product Series	V2.8	
	Model	Y86AIO/TS–A04CM	
Display	LCD Size	86"	
	Screen Ratio	16:9	
	LCD Brand	HKC	
	Backlight Type	D–LED	
	Resolution	3840*2160	
	Brightness	≥400cd/m²	
	Contrast Ratio	1400:1 (typ.)	
	Dynamic Ratio	100000:1	
	Color Gamut (X% NTSC)	100% (typ.)	
	Pixel Pitch (H*V)(mm)	0.372*0.372	
	Refresh Rate	60Hz	
	Response Time	7ms	
	Viewing Angle	178°(H) / 178°(V)	
	Life Time	50,000hrs (min.)	
	View Area (H*V)(mm)	1897(H)*1068(V) mm	
	Display Colors	1.07B(8bit+FRC)	
Motherboard Spec	Chipset	RK3588	
	CPU	Cortex–A76*4+Cortex–A55*4	
	Frequency	2.4GHz	
	CPU Core	Octa–core	
	GPU	ARM Mali–G610 MC4	
	RAM	16G DDR4	
	ROM	256G EMMC	
	OS	Android 15.0 (updates OTA)	EDLA Certified
Wireless	WIFI	IEEE802.11a/b/g/n/ac/ax:2.4G+5G	
	AP	IEEE802.11a/b/g/n/ac:2.4G+5G	
	Bluetooth	5.2	
	HDMI IN *3	3*HDMI standard socket, 2*51PIN VBO socket	
	ETHERNET *2	RJ45 port support Android 1000M Ethernet and OPS 1000M Ethernet connection, And support the other network cable for other devices to access the Internet.	

REAR I/O	DP IN *1	1*standard socket	
	TYPE_C IN *1	1*TYPE C standard socket（The TYPE_C IN socket can support the following functions: 1. Audio and video input; 2. TOUCH OUT; 3. Android USB; 4. Max power is 65W.)	
	VGA IN *1	1*DB15 standard block	
	VGA AUDIO IN *1	1*earphone standard socket	
	MIC IN *1	1*earphone standard socket	
	HDMI OUT *1	1*HDMI standard socket	
	TYPE_C OUT *1	The TYPE_C OUT socket can support the following functions: 1. Audio and video output; 2. Android USB2.0; 3. Max power is 5W.	
	EARPHONE *1	1*earphone standard socket	
	SPDIF *1	1*optical socket	
	RS232 *1	1*DB9 standard block	
	Android USB *2	2*Standard type USB3.0 A port	
	Full Source Sharing USB *4	4*Standard Type USB3.0 A port	
	TF card *1	1*little socket	
	TOUCH USB *4	1*Standard type USB2.0 A port,3*Standard Type USB3.0 B port	
Front I/O	TOUCH USB*1	Version: USB2.0, Interface: Type–B	
	HDMI IN *1	Version: HDMI2.0, 3840*2160@60Hz (Max.)	
	USB3.0 *2	Version: USB3.0, Interface: Type–A,Public	
	TYPE–C IN *1	Interface: Full–featured,PD15W	
	Remote receiver window	Infrared remote control receiving window	
	Light Sensor	Brightness automatically adjusted by the light sensor according to the ambient light	
	Power	Power ON/OFF	
Front Button	Seven physical button	Power、Home、Return、Touch、Freeze、Vol–、Vol+	
Touch Screen Spec	Touch Technology	Infrared Touch	
	Surface Protection	3.2mm Anti–scratch、tempered AG Glass	
	Infrared Touch	Android OS: 60 Points、Windows OS: 60 Points	
	Interpolation Resolution	32767*32767	
	Touch Accuracy	90% Central Area:±1mm	
	Recognition differentiated	pencil / object / palm / gestures	
	Functions: Annotation on any source	2–headed pencil / colors	
	Touch Height	＜2mm	
	Response Time	≤5ms	
	Output Mode	HID Standard	
	Theory Clicks	Infinite	

	Minimum Touch Object	One Points≥2mm / Multi Points≥5mm	
	Connect Type	USB2.0 Full Speed	
	Voltage	DC 5V	
	Power Consumption	≤2.5W	
Built-in camera and microphone	Number of built-in microphones	8	
	Microphone pickup distance	≤12M	
	Special Features	Echo Reduction、Intelligent Background Noise Cancellation、Sampling Rate: 32KHz、Bit Depth: 16 bit	
	Built-in Camera Pixel	4800W （4K UHD (up to 48 MP in photo))	
	Lens Focuses Method	FF	
	Camera Angle	114.9°±3° (diagonal), 102.1°±3° (horizontal), 85.7°±3° (vertical)	
	Image Distortion	≤2.5%	
	Camera Features	Smart switching between Android system and optional OPS (Windows 10 Enterprise SAC)	
	Other	AI voice tracking、 humanoid following、autofocus	
Other functions	Fingerprint	Type: Semiconductor capacitive Pixels:192*192pixel，FP capacity:500pcs	
	NFC	Support for card swipe / NFC mobile phone sensing: unlocking screen function	
	Air Quality Monitoring	It integrates sensors for PM2.5, PM10, TVOC, temperature, and humidity, enabling a five-in-one environmental sensing and air quality detection function.	
	Mirror software	Screenshare：Quad screen	
Electrical Spec	Power Input	100-240V~50/60Hz	
	Power Consumption Without OPS	≤260W	
	Standby Power	＜0.5W	
	Built-in speakers	20W*2++20W*1(subwoofer)	
	OPS Power Supply	DC 18V ≤5A	
Structure	Product Size(W * D * H) （mm)	1951.2*94.5*1167.9 mm	
	Package Size(W * D * H)	2080*190*1300 mm	
	Housing Material	Aluminum/Metal plate	
	Housing Color	Sony gray	
	(VESA （mm)	800*600	
Weight	N.W. （kg)	65±2	
	G.W. （kg)	76±2	
Environmental Conditions	Operation Temperature	0℃~40℃	
	Operation Humidity	10%~90%RH	
	Storage Temperature	−20℃~60℃	
	Storage Humidity	10%~90%RH	
	Operation Altitude	Below 5000 meters	

Packing	Packaging	Carton + Foam	
	Accessories	Power Cord*1，Remote Control*1，Touch Pen*2，wall bracket*1, WiFi Antenna*1, QC Card*1, Warranty Card*2	

Structural dimension drawing